

Construction Labor Market Analyzer® (CLMA®)

Craft and Professional Disciplines Definitions and Example Titles

SOC Code*	CLMA Code*	CLMA Position Title	CLMA Position Definition	CLMA Position Example Titles
472011	472011	Boilermaker	Boilermakers fabricate, assemble, erect, test, maintain and repair boilers, vessels, tanks, towers, heat exchangers and other heavy-metal structures.	Boilermaker, Boiler Fitter, Boiler Installer, Construction Boilermaker, Industrial Boilermaker, Marine Boilermaker, Pressure Vessel Fabricator
SOC Code NA	472011.1	Boilermaker Welder	Boilermaker Welders weld piping and other heavy-metal structures in support of boilermaker work operations.	Boilermaker Welder, Boilermaker Welder Fitter
472021, 472022	472021	Bricklayer / Blockmason	Bricklayers lay bricks, concrete blocks, stone and other similar materials to construct or repair walls, arches, chimneys, fireplaces and other structures in accordance with blueprints and specifications. Segmental pavers cut, place, and arrange a variety of finished masonry such as brick and concrete in order to create paths, patios, driveways, and steps.	Bricklayer, Brickmason, Refractory Bricklayer, Stonecutter, Blockmason, Stonemason, Segmental Pavers
SOC Code NA	472030.2	Carpenter (Finishing)	Finish carpenters, cabinetmakers and millworkers make and install wood products—including moldings, panels, and furniture—and fixtures of metal, plastic, and glass. Experts at operating many machines and using many tools, they also create the details and craftsmanship found in woodworking, cabinetry, and décor.	Cabinetmaker, Millworker, Finish Carpenter
472042, 472043, 472041	472042	Carpenter (Floor Covering Installer)	Floor covering installers install carpet, wood, linoleum, vinyl and other resilient floor coverings in residential, commercial, industrial and institutional buildings.	Carpet Installer, Carpet Layer, Floor Covering Installer, Floor Covering Mechanic, Resilient Floor Installer, Rug Installer, Vinyl Floor Installer
472081, 472082	472081	Carpenter (Interior Systems)	Interior systems carpenters install drywall, acoustical ceilings, metal framing, wall partitions, office furniture systems, and other materials, equipment, and factory-produced systems.	Carpenter, Drywall Installer, Sheetrock Applicator, Ceiling Installer, Acoustical Ceiling Installer, Interior Systems Mechanic
SOC Code NA	472030.3	Carpenter (Lather)	Lathers use wire, screws, nails, clips, and staples to fasten metal studs, metal lath (strips that form latticework), and drywall. Lathers install support framework for ceiling systems, interior and exterior walls and building partitions. The framework built by lathers is covered by plaster, drywall materials, and other finished surfaces.	Carpenter, Lather, Wood Lather
472072	472072	Carpenter (Pile Driver / Operator)	Pile drivers install piling to hold back the earth during excavations, to set up the foundation of skyscrapers and bridges, and to build docks and wharfs. Due to the wide range of work in this trade, many pile drivers are certified welders and capable of working with a variety of sizes and shapes of steel.	Carpenter, Pile Driver, Welder
SOC Code NA	472030.1	Carpenter (Scaffold Building)	Carpenters construct, erect, install, maintain and repair structures and components of structures made of wood, wood substitutes and other materials.	Carpenter, Finish Carpenter, Rough Carpenter, Scaffold Builder, Maintenance Carpenter, Renovation Carpenter, Formwork Carpenter, Framing Carpenter, Ship's Carpenter
472031	472031	Carpenters (All Unspecified)	This is a generic carpenter title that includes all carpenter specialties. Use this title when the carpenter specialties on the project are not known or not otherwise specified within another Carpenter title.	Carpenter, Finish Carpenter, Rough Carpenter, Scaffold Builder, Maintenance Carpenter, Renovation Carpenter, Formwork Carpenter, Framing Carpenter, Ship's Carpenter, Pile Driver, Welder, Lather, Wood Lather, Cabinetmaker, Millworker, Finish Carpenter, Drywall Installer, Sheetrock Applicator, Ceiling Installer, Acoustical Ceiling Installer, Interior Systems Mechanic, Carpet Installer, Carpet Layer, Floor Covering Installer, Floor Covering Mechanic, Resilient Floor Installer, Rug Installer, Vinyl Floor Installer
472051	472051	Concrete Finisher / Cement Mason	Cement masons mix, place and consolidate concrete. Concrete finishers smooth and finish freshly poured concrete, apply curing or surface treatments, and install, maintain and restore various masonry structures such as floors, ceilings, sidewalks, roads and patios.	Concrete Finisher, Concrete Mason, Cement Mason, Precast Concrete Finisher, Flatwork Finisher

Construction Labor Market Analyzer® (CLMA®)

Craft and Professional Disciplines Definitions and Example Titles

SOC Code*	CLMA Code*	CLMA Position Title	CLMA Position Definition	CLMA Position Example Titles
473010, 472131, 473011, 473012, 473013, 473014, 473015, 473016, 473019, 474051, 475061, 475081, 475099, 499098, 499799	473010	Craft Helper	Construction trades helpers and laborers assist skilled tradespersons and perform general labor activities at construction sites.	Asphalt Spreader, Bricklayer Helper, Carpenter Helper, Concrete Mixer Helper, Construction Helper, Construction Laborer, Demolition Worker, Drywall Sander, Flagger, Glazier Helper, Concrete Paving Laborer, Excavation Laborer, Pipeline Mandrel Operator, Plumber Helper, Roofer Helper, Stabber (pipeline construction), Janitor, Scaffold Laborer
472111	472111	Electrician	These electricians install, maintain, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls in commercial and industrial facilities.	Industrial Electrician, Plant Electrician, Plant Maintenance Electrician, Mill Electrician, Mine Electrician, Shipyard Electrician, Marine Electrician
474021	474021	Elevator Constructor & Mechanic	Elevator constructors and mechanics assemble, install, maintain and repair freight and passenger elevators, escalators, moving walkways and other related equipment.	Elevator Installer, Elevator Constructor, Elevator Mechanic, Escalator Repairer
SOC Code NA	472061.1	Firewatch	Firewatchers observe ongoing hot work to identify and react to hazards. A Firewatch is necessary at any time where hot work is performed in locations where a fire greater than a minor one might develop, such as a construction site or oil rig. Before hot work begins, written permission, like a hot work permit, must be issued. Inspect the work area for any sources of fuel, such as trash, rags and flammable materials and liquids. This applies to lower decks or levels where sparks or slag could fall.	Firewatch, Firewatcher
SOC Code NA	475071.1	Floorhand	Floorhands perform what is typically the dirtiest and most physically demanding of all roles. They perform whatever is required, similar to a roughneck, yet this role is one of the most dangerous. They arrive after the preliminary wells are completed and remain until the fracturing is completed.	Floorhand, Roustabout
472121	472121	Glazier	Glaziers cut, fit, install and replace glass in industrial, commercial and residential buildings, on exterior walls of buildings and other structures	Glazier, Glazier and Metal Mechanic, Plate Glass Installer, Stained Glass Glazier, Structural Glass Glazier
499021	499021	HVAC & Refrigeration Mechanic	Heating, air-conditioning, and refrigeration mechanics, installers, and technicians install, maintain, and repair heating, ventilation, air-conditioning, and refrigeration systems (HVACR systems) for commercial and industrial refrigeration and air conditioning systems and combined heating, ventilation and cooling systems, and residential central air conditioning systems.	Central Air-conditioning Mechanic; Commercial Air-conditioning Mechanic; Heating and Cooling Mechanic; Heating, Ventilation and Air-conditioning (HVAC) Mechanic; Refrigeration Mechanic; Transport Refrigeration Mechanic; HVACR Technician
499069, 492095	499069	Instrumentation Technician	Instrumentation Technicians install, inspect, test, adjust, and repair electric, electronic, mechanical, and pneumatic instruments and systems in industrial facilities.	Instrumentation Technician, Instrumentation Fitter, E&I Technician

Construction Labor Market Analyzer® (CLMA®)

Craft and Professional Disciplines Definitions and Example Titles

SOC Code*	CLMA Code*	CLMA Position Title	CLMA Position Definition	CLMA Position Example Titles
472132	472132	Insulator	Insulators apply insulation materials to plumbing, process, air-handling, heating, cooling and refrigeration systems, piping equipment and pressure vessels, and walls, floors and ceilings of buildings and other structures to prevent or reduce the passage of heat, cold, sound or fire.	Boiler and Pipe Insulator, Building Insulator, Firestopping Insulator, Heat and Frost Insulator, Insulation Applicator, Insulation Mechanic, Insulator, Insulator Apprentice, Sound Insulator
472171	472171	Ironworker - Reinforcing	Rebar ironworkers fabricate, tie and set reinforcing bar for concrete placements.	Rebar Ironworker, Ironworker
472221	472221	Ironworker / Welder - Structural	Structural ironworkers place and install steel girders, columns, and other structural members to form completed structures or frameworks of buildings, bridges, and other structures.	Ironworker, Steel Erector, Ornamental Ironworker, Metal Fabricator, Structural Welder
472061, 474099, 475051	472061	Laborer	Construction helpers and laborers perform general, physical labor activities at construction sites and oil/gas rigs and may assist skilled tradespersons.	Laborer, General Laborer, Roughneck
499051, 499052	499051	Lineman	Electric linemen install, relocate, or modify high-voltage electrical power lines that link utility grids to medium or low voltage distribution systems.	Lineman, High-voltage Electrician
514041, 514011	514041	Machinist	Machinists use machine tools to make or modify metal parts via machining.	Machinist, CNC Machinist
499044, 499043, 499041	499044	Millwright	Construction millwrights and industrial mechanics install, maintain, troubleshoot and repair stationary industrial machinery and mechanical equipment.	Construction Millwright, Industrial Mechanic, Maintenance Millwright, Millwright, Plant Equipment Mechanic, Treatment Plant Mechanic
SOC Code NA	493042.1	Motorman	The motorman constantly maintains and repairs the necessary equipment throughout the drilling and fracturing operations, so as to keep the equipment working on all shifts. Their role is constant from the commencing of the well drilling and increases to the completion of the fracturing.	Motorman, Moatman
475031, 475021	475031	Operator (Driller & Blaster)	Drillers operate mobile drilling machines to bore blast holes for open-pit mines, quarries, road construction, and building foundations. Blasters fill blast holes with explosives and detonate explosives to dislodge coal, ore and rock or to demolish structures.	Construction Blaster, Surface Mining Blaster, Driller, Construction Foundation Drill Operator, Open-pit Blaster, Open-pit Driller, Rotary Drilling Machine Operator
537021	537021	Operator (Heavy Crane)	Crane operators operate cranes or draglines to lift, move, position or place machinery, equipment and other large objects at construction or industrial sites, ports, railway yards, surface mines and other similar locations.	Crawler Crane Operator, Hydraulic Crane Operator, Boom Truck Crane Operator, Bridge Crane operator, Climbing Crane Operator, Construction Crane Operator, Crane Operator, Dragline Crane Operator, Gantry Crane Operator, Hoist Operator (except underground mining), Mobile Crane Operator, Tower Crane Operator, Tractor Crane Operator
493042	493042	Operator (Heavy Equipment Mechanic)	Heavy-duty equipment mechanics repair, troubleshoot, adjust, overhaul and maintain mobile heavy-duty equipment used in construction, transportation, forestry, mining, oil and gas, material handling, landscaping, land clearing, farming and similar activities.	Construction Equipment Mechanic, Diesel Mechanic – Heavy Equipment, Farm Equipment Mechanic, Heavy-duty Equipment Mechanic Apprentice, Heavy-duty Equipment Technician, Heavy Equipment Mechanic, Heavy Mobile Logging Equipment Mechanic, Heavy Mobile Mining Equipment Mechanic, Locomotive Mechanic, Tractor Mechanic

Construction Labor Market Analyzer® (CLMA®)

Craft and Professional Disciplines Definitions and Example Titles

SOC Code*	CLMA Code*	CLMA Position Title	CLMA Position Definition	CLMA Position Example Titles
472073, 472071, 474061, 475041, 475042, 475049, 537032	472073	Operator (Heavy Equipment)	Heavy equipment operators operate heavy equipment used in the construction and maintenance of roads, bridges, airports, gas and oil pipelines, tunnels, buildings and other structures, in surface mining and quarrying activities.	Backhoe Operator, Bulldozer Operator, Excavator Operator, Gradall Operator, Grader Operator, Heavy Equipment Operator, Loader Operator – Construction, Side Boom Tractor Operator, Surface Mining Equipment Operator
537062	537062	Operator (Material Handlers)	Material handlers operate forklifts, tractors, trucks and other motorized vehicles to off-load and transport materials at a construction site.	Fork lift Driver, Hoist Operator
475012, 475011, 475013	475012	Operator (Rotary Driller Oil & Gas)	Rotary driller operators set up or operate a variety of drills to remove petroleum products from the earth and to find and remove core samples for testing during oil and gas exploration.	Back-up Worker, Cable Driller, Cable Tool Driller, Cable Tool Operator, Clean-out Driller, Core Drill Operator, Core Driller, Drill Hand, Drill Operator, Driller, Drilling Machine Operator, Oil Driller, Oil Well Driller, Prospecting Driller, Rotary Driller, Rotary Rig Engine Operator, Shot Hole Driller, Spud Driller, Well Driller
533032, 537051	533032	Operator (Truck Driver)	Truck drivers operate heavy trucks to transport goods and materials over urban, and rural routes.	Bulk Goods Truck Driver, Dump Truck Driver, Flatbed Truck Driver, Logging Truck Driver, Long-haul Truck Driver, Moving Van Driver, Tow Truck Driver, Truck Driver, Truck Driver – Heavy Truck, Truck Driver – Tractor-trailer
SOC Code NA	470000.1	Other	Skilled workers not included in the list above	Skilled workers not included in the list above
472141, 472142	472141	Painter	Painters and decorators apply paint, wallpaper and other finishes to interior and exterior surfaces of buildings and other structures.	Construction Painter, Maintenance Painter, Painter, Painter and Decorator, Paperhanger
472152	472152	Pipefitter	Pipefitters and steamfitters layout, assemble, fabricate, maintain, troubleshoot and repair piping systems carrying water, steam, chemicals and fuel in heating, cooling, lubricating and other process piping systems.	Pipefitter, Pipefitter-Steamfitter, Marine Pipefitter, Steamfitter
SOC Code NA	472152.2	Pipefitter (Sprinkler Systems)	Sprinkler system installers fabricate, install, test, maintain and repair water, foam, carbon dioxide and dry chemical sprinkler systems in buildings for fire protection purposes.	Pipefitter, Sprinkler Fitter, Fire Sprinkler Fitter, Sprinkler System Fitter, Sprinkler System Installer
SOC Code NA	472152.1	Pipefitter / Combo Welder	Pipe and combo welders fabricate components by welding, brazing, caulking, soldering, glueing or threading joints at industrial and commercial job sites.	Pipe Welder, Combo Welder, Fabricator, GTAW, GMAW, FCAW & SAW Welder, Certified Pipe Welder
472151	472151	Pipelayer (Underground)	Pipelayers lay and join glazed clay, concrete, plastic, or cast-iron pipe for drains, sewers, water mains, and oil or gas lines. Pipelayers prepare and grade the trenches either manually or with machines before laying the pipe.	Pipelayer, Plumber
472161	472161	Plasterer / Stucco Mason	Plasterers apply finish and maintain and restore plaster or similar materials on interior and exterior walls, ceilings and building partitions to produce plain or decorative surfaces. Stucco masons apply plaster to interior walls and cement or stucco to exterior walls. Drywall finishers and tapers finish drywall sheets build, apply, or fasten interior and exterior wallboards or wall coverings in residential, commercial, and other structures.	Drywall Applicator, Drywall Finisher, Drywall Taper, Plasterer, Stucco Mason
SOC Code NA	472152.3	Plumber	Plumbers install and maintain plumbing, heating, drainage, water, and piping systems including associated fixtures and equipment.	Plumber
499096	499096	Rigger / Signalperson	Riggers set up or repair rigging for construction projects, manufacturing plants, logging yards, ships and shipyards.	Rigger, Signalperson, Yard Rigger, Crane Rigger

Construction Labor Market Analyzer® (CLMA®)

Craft and Professional Disciplines Definitions and Example Titles

SOC Code*	CLMA Code*	CLMA Position Title	CLMA Position Definition	CLMA Position Example Titles
472181	472181	Roofer	Roofers install, repair or replace flat roofs and shingles, shakes or other roofing tiles on sloped roofs. Shinglers install and replace shingles, tiles and similar coverings on sloped roofs.	Roofer, Asphalt Roofer, Built-up Roofer, Flat Roofer, Residential Steep Roofer, Shingler, Single-ply Roofer
475071	475071	Roughneck	Roughnecks serve as the workhorse of the drilling crew and performs the most physical and manual labor on a drilling and fracturing crew. Their effort is similar to the laborer of more typical construction projects. They assist the crew with most of the general tasks that need to be completed. They arrive as the drill rig equipment arrives and they remain until the fracturing is complete. A majority of their work is completed in the later stages of the drilling and fracturing process.	Roughneck, Roustabout, Laborer
472211	472211	Sheet Metal Worker	Sheet metal workers fabricate, assemble, install and repair sheet metal products including air handling ductwork.	Sheet Metal Worker, Sheet Metal Fabricator, Sheet Metal Mechanic, Tinsmith, Duct Worker
472044, 472053	472044	Tile / Marble Setter	Tilesetters cover interior and exterior walls, floors and ceilings with ceramic, marble and quarry tile, mosaics or terrazzo.	Apprentice Tilesetter, Ceramic Tile Installer, Marble Setter, Terrazzo Polisher, Terrazzo Worker, Tile Installer, Tilesetter
SOC Code NA	475071.2	Tool Drag	The tool drag oversees the activities of the crew while lending assistance to whatever roles need performing. They are required after the preliminary wells are completed and they remain on site until the fracturing is complete.	Tool Drag, Tool Pusher
514120, 514121, 514122	514121	Welder (Specialty)	Welders lay out, fit, and weld fabricated, cast, and forged components to assemble structural forms, such as machinery frames, pipelines, boilers, ships, tanks, pressure vessels, furnace shells, and building and bridge parts, according to blueprints and knowledge of welding and metallurgy. Types of welding include Carbon Arc, Flux-Cored Arc, Gas-Metal Arc, Gas-Tungsten Arc, Hand, Submerged Arc, Plasma Arc, Shielded-Metal Arc.	Welder, Pipe Welder, Boilermaker Welder, Combo Welder, Cutter, Solderer, Laser Machine Welder, Brazer and Brazing Machine Setter, Operator, Tender, Commercial Divers, Underwater Welders
Professional Disciplines				
119021	119021	Construction Manager	Construction managers plan, organize, direct, control and evaluate the activities of a construction company or a construction department within a company, under the direction of a general manager or other senior manager. They are employed by industrial and commercial construction companies and by construction departments of companies outside the construction industry.	Commercial Construction Manager, Construction Manager, Construction Superintendent, General Contractor, Housing Construction Manager, Industrial Construction Manager, Pipeline Construction Manager, Construction Project Manager, Construction Coordinator
SOC Code NA	151141.1	Contract Administrator	Contract administrators form, award and administer field contracts on a project. This includes verification of contractor performance.	Contract Administrator, Contract Manager, Owners Representative, Contract Specialist
172051	172051	Engineer (Civil)	Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, ocean, and geo-technical engineers.	Civil Engineer, Professional Engineer, Structural Engineer
171022, 173022, 173031	172051.1	Engineer (Field)	Field engineers perform quantity take-offs, order required materials, assist in construction planning, inspect completed installations, verify code compliance, prepare daily reports, report installed quantities, monitor subcontractor performance, respond to subcontractor requests for information (RFI's) and resolve field technical problems on a project.	Field Engineer, Technical Representative, Contract Coordinator, Inspector, Materials Engineer, Assistant Project Manager, Project Engineer, Field Surveyor, Structural Engineering Technician, Highway Engineering Technician, Geotechnical Engineering Technician, Field Map Technician, GIS Mapping Technician, Cartographic Technician, Civil Engineering Technician
SOC Code NA	172051.2	Engineer (Cost & Schedule)	Project cost and schedule engineers assist in developing construction budgets and schedules, monitor project cost and schedule performance, facilitate project cost and schedule review meetings, manage action item lists, and prepare project progress reports.	Cost Engineer, Project Scheduler

Construction Labor Market Analyzer® (CLMA®)

Craft and Professional Disciplines Definitions and Example Titles

SOC Code*	CLMA Code*	CLMA Position Title	CLMA Position Definition	CLMA Position Example Titles
119041	172051.3	Engineer (Resident)	Resident engineers represent the design authority at a project jobsite and provide designer approval of construction requested design changes.	Resident Engineer, Designer Representative, Architectural Representative, Mechanical Engineering Director, Global Engineering Manager, Engineering Design Manager
SOC Code NA	172051.4	Engineer (Structural)	Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. Includes architectural, structural, traffic, ocean, and geo-technical engineers.	Structural Engineer, Professional Engineer
172111	172111	Engineer (Safety)	Safety engineers promote worksite or product safety by applying knowledge of industrial processes, mechanics, chemistry, psychology, and industrial health and safety laws. Includes industrial product safety engineers. Safety Engineers are typically involved in designing safety processes/systems and serve as the SME in fire protection design.	Safety Engineer, Process Safety Engineer
131051	131051	Estimator	Construction estimators analyze costs of and prepare estimates on civil engineering, architectural, structural, electrical and mechanical construction projects. They are employed by industrial and commercial construction companies and major electrical, mechanical and trade contractors, or they may be self-employed.	Construction Estimator, Cost Estimator, Chief Construction Estimator, Principal Construction Estimator, Professional Quantity Surveyor, Quantity Construction Surveyor
113061, 131023	113061	Field Procurement Representative	Field procurement representatives procure field purchased materials and manage materials on a project. This includes evaluation of bids and field purchase awards.	Field Buyer, Materials Manager, Field Material Coordinator, Warehouse Manager, Laydown Yard Manager, Source Inspector
474010, 474011, 131041	474010	Inspector / Quality Assurance/Quality Control	Construction Inspectors inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.	Construction Inspector, Compliance Officer, Building Inspector, Quality Assurance Officer, Quality Control Manager
299011, 299012	299011	Safety Specialist / Representative	Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector. Includes environmental protection officers.	Certified Industrial Hygienist; Chief Safety Officer; Corporate Safety Director; Director Employee Safety and Health; Environmental Health and Safety Manager; Environmental, Health, and Safety EHS Officer; Health and Safety Manager; Risk Control Consultant; Safety Consultant; Safety Specialist; Safety Supervisor, Safety Representative, Safety Technician, Project Nurse, Environmental Representative, Paramedic
131151	131151	Specialists for Craft Training & Development	Design and conduct training and development programs to improve individual and organizational performance. May analyze training needs.	Corporate Trainer, Computer Training Specialist, Job Training Specialist, Management Development Specialist, Trainer, Training Coordinator, Training Specialist, E-Learning Developer, Technical Trainer, Occupational Health & Safety Trainer
471011, 531021	471011	Superintendent / General Foreman	Construction superintendents supervise and direct the activities of construction workers on a project. They are employed by construction companies and maintenance departments of industrial, commercial and manufacturing establishments.	Contractor, Foreman, General Foreman, Supervisor, Non-Working Foreman, Warehouse Supervisor, Material Handling Crew Supervisor

Note: In the near future, the CLMA will track and report on these positions by skill level (E.g. Apprentice and Journeyman).

*** Craft codes used in the CLMA correspond as closely as possible to the U.S. Department of Labor, Bureau of Labor Statistics SOC Occupation Codes.**

http://www.bls.gov/oes/current/oes_stru.htm | <http://www.bls.gov/soc/#classification>